

DERWENT- 1973-61838U

ACC-NO:

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WEEK:

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**TITLE:** Radiation sensitive device - using a semiconductor junction element for detection of conversion display of soft x-rays

**PATENT-ASSIGNEE:** MATSUSHITA ELEC IND CO LTD[MATU]

**PRIORITY-DATA:** 1970JP-0062976 (July 17, 1970)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 73032940 B	N/A	000	N/A	

**INT-CL (IPC):** H01J000/00, H01L000/00, H03F000/00

**ABSTRACTED-PUB-NO:** JP 73032940B

**BASIC-ABSTRACT:**

A p type layer consisting of Cu<sub>2</sub>S-Cu<sub>2</sub>Se is formed on a n type semiconductor film consisting of a solid soln of CdS-CdSe doped with In to form a **heterojunction** element. A thin **film electrode** of Au is formed on the p type layer and a metal electrode of In is formed on the n type film. Two electrodes are connected by lead wires and to a variable d.c. power source and anammeter. A reverse bias voltage V<sub>p</sub> is applied across the **heterojunction** element. When the **heterojunction** element is irradiated with soft x-rays, a.d.c. current I<sub>p</sub> passing through the **heterojunction** element is detected with the d.c. ammeter.

**TITLE- RADIATE SENSITIVE DEVICE SEMICONDUCTOR JUNCTION ELEMENT**  
**TERMS: DETECT CONVERT DISPLAY SOFT RAY**

**DERWENT-CLASS:** K08 L03 U12 U24 V05

**CPI-CODES:** K08-A; K08-X; L03-D04E; L03-H04C;